

Title (en)

NONRETURN VALVE FOR THE SCREW OF A PLASTICISING UNIT OF AN INJECTION-MOULDING MACHINE

Title (de)

RÜCKSTRÖMSPERRE FÜR DIE SCHNECKE EINER PLASTIFIZIEREINHEIT EINER SPRITZGIESSMASCHINE

Title (fr)

CLAPET ANTIRETOUR DESTINÉ À LA VIS D'UNE UNITÉ DE PLASTIFICATION D'UNE MACHINE DE MOULAGE PAR INJECTION

Publication

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Application

EP 19720083 A 20190417

Priority

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- EP 2019059966 W 20190417

Abstract (en)

[origin: WO2019214919A1] A description is given of a nonreturn valve (23) comprising two half-shells (24a, 24b), which can be arranged in a portion (21) of the screw (20) with a reduced screw diameter, wherein the function of the nonreturn valve is incorporated in the two half-shells. For this purpose, one or more channels (25) for the melt to flow through from the screw into the space in front of the screw is/are provided in each of the half-shells (24a, 24b), wherein the channels lie substantially parallel to the longitudinal axis of the nonreturn valve or the longitudinal axis of the screw. Provided in each of the channels are a ball and, following the ball as seen in the direction of flow of the melt, a pin, wherein the pin is arranged substantially transversely to the direction of flow of the melt. As seen in the direction of flow of the melt, the channels each have a first channel portion, with a channel diameter less than the diameter of the ball, and a second channel portion, with a channel diameter greater than the diameter of the ball, wherein the ball and the pin are arranged in the second channel portion.

IPC 8 full level

B29C 45/52 (2006.01); **B29C 45/60** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2019214919A1

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